

917-4  
25 June 1965

MEMORANDUM FOR: Acting Chief, Development Branch, P&DS

STATINTL SUBJECT: Production of Sine-wave Transmittance Targets for  
the [REDACTED] Sine-wave Testing  
Equipment

1. Project No. 99033-5, a feasibility study of producing low modulation sine-waves on film was undertaken on 29 December 1964. This study was in support of a Development Branch activity to develop an instrument for determining modulation transfer function of optical equipment. It was felt that the cost of producing these could be significantly lower if they were produced in the Exploratory Development Laboratory.

STATINTL 2. The feasibility has been established and sine-waves of one, two, three, five, ten and fifteen cycles/mm at varied modulations and transmittances have been forwarded to the contractor with the full cognizance of the technical monitor, [REDACTED]. These sine-waves have been found to be satisfactory and the contractor feels no additional improvement in quality is required at this time.

3. The techniques for producing these sine-waves involve the use of a coherent optical system employing spatial filtering techniques. Because of the likelihood of additional similar requirements a detailed account of the experiments and those parameters necessary for subsequent production were kept during the course of the project. These are collected in Notebook No. 3 and filed under project No. 99033-5 in the Exploratory Development Laboratory Branch project files. Should you require any information contained therein or wish to disseminate such information to contractors (the technique is ~~not~~ patentable so no infringement of anyone's patent is involved) you may avail yourself of the notebook.

4. Project No. 99033-5 is now terminated and this memorandum constitutes the final report.

STATINTL [REDACTED]

Chief, Exploratory Development Laboratory Branch  
P&DS

Declass Review by NIMA/DOD